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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/643,556	08/18/2003	Jesse Dennis Wolfe	IL-11072	4907	
7590 10/11/2005			EXAMINER		
James S. Tak		VERSTEEG, STEVEN H			
Assistant Labora Lawrence Liver	atory Counsel more National Laboratory	ART UNIT	PAPER NUMBER		
P.O. Box 808, L		1753			
Livermore, CA	94551	DATE MAILED: 10/11/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicat	ion No.	Applicant(s)			
Office Action Summary		10/643,5	556	WOLFE ET AL.			
		Examine	r	Art Unit			
			I. VerSteeg	1753			
Period fo	The MAILING DATE of this communication Reply	on appears on th	e cover sheet with th	e correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR INCHES IS LONGER, FROM THE MAILIN IN INCHES IS LONGER, FROM THE MAILIN IN INCHES IS IN (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF T CFR 1.136(a). In no evicon. period will apply and versity the apply apply and versity the apply apply and versity the apply apply apply and versity the apply app	HIS COMMUNICATION Went, however, may a reply but Will expire SIX (6) MONTHS for the polication to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNFD (35 U.S.C. 6.133)			
Status							
1)⊠	Responsive to communication(s) filed on	26 August 200	<u>5</u> .				
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice un	ider <i>Ex parte Q</i>	uayle, 1935 C.D. 11,	453 O.G. 213.			
Dispositi	on of Claims						
4)⊠	4) Claim(s) 1-9,11,13-21 and 23 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5)⊠ Claim(s) <u>1-9,11 and 13-21</u> is/are allowed.						
-	Claim(s) 23 is/are rejected.						
	Claim(s) is/are objected to.			•			
اــا(ە	Claim(s) are subject to restriction a	and/or election i	equirement.				
Applicati	on Papers						
9)□	The specification is objected to by the Exa	aminer.					
10)🛛	The drawing(s) filed on <u>18 August 2003</u> is.	/are: a)⊠ acce	epted or b)□ objecte	ed to by the Examiner.			
	Applicant may not request that any objection t		· ·				
44)[]	Replacement drawing sheet(s) including the c						
11)	The oath or declaration is objected to by the	he Examiner. N	ote the attached Offi	ice Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for fo ☐ All b)☐ Some * c)☐ None of:	reign priority un	der 35 U.S.C. § 119	(a)-(d) or (f).			
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* S	ee the attached detailed Office action for	a list of the cert	ified copies not rece	ived.			
Attachment	·(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	0)	4) Interview Summa				
	e of Draπsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S		Paper No(s)/Mail 5) Notice of Informa	al Patent Application (PTO-152)			
	No(s)/Mail Date		6) Other:				

Application/Control Number: 10/643,556

Art Unit: 1753

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 23 recites the limitation "said means for providing a reactant gas" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Response to Amendment

- 4. The objection to the drawings presented in the office action mailed January 12, 2005 is withdrawn in light of the amendment.
- 5. The objection to the specification presented in the office action mailed January 12, 2005 is withdrawn in light of the amendment.
- 6. The claim objections presented in the office action mailed January 12, 2005 are withdrawn in light of the amendment.
- 7. The 103(a) rejection of claims 1-24 over Scobey in view of Belkind presented in the office action mailed January 12, 2005 is withdrawn in light of Applicant's arguments.

Allowable Subject Matter

- 8. Claim, 1-9, 11, and 13-21 are allowed.
- 9. The following is a statement of reasons for the indication of allowable subject matter: it is neither anticipated nor obvious over the prior art of record to have a reactive magnetron sputter

Art Unit: 1753

deposition process as claimed by Applicant in claim 13 or a reactive magnetron sputter deposition apparatus as claimed by Applicant in claim 1.

10. Scobey, as discussed by Applicant, does not have a reactant gas providing means "at" the target source and also does not direct the reactant gas to the target source. Modifying Scobey would involve tearing apart the reference to change the gas delivery method. It is particularly notable that Scobey introduces the inter gas at the target and the reactive gas away from the target. Thus, there is significance, a teaching away if you will, of providing the reactive gas away from the target in Scobey. Providing the reactive gas at the target, even if motivation existed, would not be obvious because Scobey teaching away from such a limitation.

General Information

For general status inquiries on applications not having received a first action on the merits, please contact the Technology Center 1700 receptionist at (571) 272-1700.

For inquiries involving Recovery of lost papers & cases, sending out missing papers, resetting shortened statutory periods, or for restarting the shortened statutory period for response, please contact Denis Boyd at (571) 272-0992.

For general inquiries such as fees, hours of operation, and employee location, please contact the Technology Center 1700 receptionist at (571) 272-1300.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven H. VerSteeg whose telephone number is (571) 272-1348. The examiner can normally be reached on Mon - Thurs (6:30 AM - 5:00 PM).

Art Unit: 1753

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven H VerSteeg Primary Examiner Art Unit 1753

shv October 3, 2005